

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/000638

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> C07K1/34, B01D61/00, C07K14/435

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> C07K1/00-19/00, B01D53/22, B01D61/00-71/82, C02F1/44,  
C12M1/00-1/42

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CA (STN), WFIDS (STN), JSTPLUS FILE (JOIS)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y A	JP 2001-200000 A (Air Water Inc.), 24 July, 2001 (24.07.01), Fig. 2; description, Par. Nos. [0024] to [0025] (Family: none)	<u>1-4, 6, 7, 12</u> <u>5, 9, 13, 14</u> 8, 10, 11
X Y A	JP 8-009992 A (Hitachi Plant Engineering & Construction Co., Ltd.), 16 January, 1996 (16.01.96), Fig. 1; description, Par. Nos. [0012] to [0013] (Family: none)	<u>1-4, 6, 7, 12</u> <u>5, 9, 13, 14</u> 8, 10, 11
Y	JP 2002-001068 A (Kurita Water Industries Ltd.), 08 January, 2002 (08.01.02), Description, Par. Nos. [0008], [0010], [0017] (Family: none)	5, 14

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"Z" document member of the same patent family

Date of the actual completion of the international search  
03 March, 2005 (03.03.05)Date of mailing of the international search report  
22 March, 2005 (22.03.05)Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

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## C (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 9-510200 A (Minnesota Mining and Manufacturing Co.), 14 October, 1997 (14.10.97), Claim 1 & WO 95/24418 A1 & US 5468847 A & EP 749440 A1	9, 14
<u>Y</u> A	JP 58-094858 A (Asahi Medical Co., Ltd.), 06 June, 1983 (06.06.83), Page 7, upper left column, 'Brief Description of the Drawings' (Family: none)	<u>13</u> 10, 11
<u>Y</u> A	JP 2001-524839 A (Josutora Bentorei Inc.), 04 December, 2001 (04.12.01), Claim 1 & WO 97/32653 A1 & EP 892664 A1 & US 5858238 A	<u>15-17, 23</u> 18-22
<u>Y</u> A	JP 63-087984 A (Miles Laboratories, Inc.), 19 April, 1988 (19.04.88), & EP 255011 A2	<u>15-17, 23</u> 18-22
A	LORNE BURKE T.W. et al., Strong cation- exchange high-performance liquid chromatography of peptides. Effect of non-specific hydrophobic interactions and linearization of peptide retention behaviour. Journal of Chromatography (1989), Vol. 476, pages 377 to 389	24-27